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System and Method for Performing Reed-Solomon Encoding

T Dobson - US Patent App. 11/549,796, 2006 - Google Patents

... To illustrate how equation (14) can be used to compute the **polynomial** $U(x)$, equation (11 ... bytes of the codeword; rather the input bits only depend on the particular **Galois field** in use ... Therefore, logic circuit 320 can be configured to perform the matrix **multiplication** of equa- tion (17 ...

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... The generator **polynomial coefficients** should be delivered by a ROM to each specific **Galois Field** multiplier since these are constant for each element of the kernel. ... Each Galios **Field polynomial multiplication** utilizes a **coefficient** delivered from a **memory** device, which in ...

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... 27 4.5.1 **Polynomial** Representation of a Code RAID Figure 1.1: Problem specification area Figure 1.1 contains **fields** of interest in relation to this thesis. The first **field** is FEC. FEC is the method that uses redundant data for error correcting. The second **field** is RAID. ...

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... In accordance with the present invention, the modified RS code encodes the data over a **Galois Field** $GF(2^8)$ (hereinafter $GF(256)$) whose **field** elements are ... the encoder for encoding k data packets column-wise is a software simulation of **polynomial** division using linear ...

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